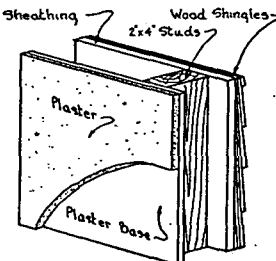


TABLE 8-B. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF FRAME WALL CONSTRUCTION

Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. Fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

WOOD SHINGLE WALLS **				
The values of <i>U</i> in this Table are based on the following Internal Conductivities (<i>C</i>) which are expressed in B.t.u. per Hr. per Sq.Ft. per 1°F		Typical Construction		
				
Wood (Yellow Pine or Fir)	1.00	per 1"		
Plaster (Gypsum)	2.32	per 1"		
Wood Lath & Plaster	2.00	as applied		
Plaster Board	3.04	per 1"		
Cork board	0.30	per 1"		
Fiber Insulation (Board form)	0.33	per 1"		
Felt or Quilt Insulation (Soft)	0.27	per 1"		
Cellular Gypsum (18")	0.59	per 1"		
Flaked Gypsum, Dry (26")	0.52	per 1"		
Wall Number	Type of Sheathing	Insulation Between Studding	Plaster Base	Coefficient of Transmission <i>U</i>
122	Wood *	None	Wood Lath	0.227
123	Wood *	½" Felt or Quilt † Insulation	Wood Lath	0.129
124	Wood *	½" Fiber Insulation † (Board form)	Wood Lath	0.135
125	Wood *	Cellular Gypsum Fill †	Wood Lath	0.110
126	Wood *	Flaked Gypsum Fill †	Wood Lath	0.101
127	Wood *	None	1½" Cork board	0.110
128	Wood *	None	2" Cork board	0.093
128-A	Wood *	None	½" Fiber Insulation (Board form)	0.178
129	½" Fiber Insulation † (Board form)	None	½" Fiber Insulation (Board form)	0.127
130	1" Fiber Insulation † (Board form)	None	½" Fiber Insulation (Board form)	0.107
131	½" Fiber Insulation † (Board form)	½" Fiber Insulation † (Board form)	½" Fiber Insulation (Board form)	0.092
132	¾" Plaster Board ‡	None	¾" Plaster Board	0.197

*Based on ¾ in., the actual thickness of 1 in. or ¾ in. sheathing.

**Building paper neglected in computations in accordance with accepted practice.

†Can also be applied on inside of studding with plaster base separated by furring strips.

‡Furring strips between wood shingles and sheathing.

†Thickness of fill assumed 3½ in., based on 2 in. by 4 in. studding.

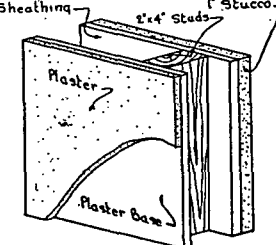
Note.—The coefficient used for plasterboard is 3.04 per inch thickness—recent data indicate values as low as 1.30 for this material.

Note.—Plasterboard sheathing is now made in half inch thickness.

Note.—The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.

TABLE 8-C. COEFFICIENTS OF TRANSMISSION (*U*) OF VARIOUS TYPES OF FRAME WALL CONSTRUCTION

Note.—These coefficients are expressed in B.t.u. per hour per square foot per 1 deg. Fahr. difference in temperature between the air on the two sides and are based on an outside wind exposure of 15 miles per hour.

STUCCO WALLS †				
The values of <i>U</i> in this Table are based on the following Internal Conductivities (<i>C</i>) which are expressed in B.t.u. per Hr. per Sq.Ft. per 1°F		Typical Construction		
				
Stucco	8.00	per 1"		
Wood (Yellow Pine or Fir)	1.00	per 1"		
Plaster (Gypsum)	2.32	per 1"		
Wood Lath & Plaster	2.00	as applied		
Plaster Board	3.04	per 1"		
Cork board	0.30	per 1"		
Fiber Insulation (Board form)	0.33	per 1"		
Felt or Quilt Insulation (Soft)	0.27	per 1"		
Cellular Gypsum (18")	0.59	per 1"		
Flaked Gypsum, Dry (26")	0.52	per 1"		
Wall Number	Type of Sheathing	Insulation Between Studding	Plaster Base	Coefficient of Transmission <i>U</i>
133	Wood *	None	Wood Lath	0.257
134	Wood *	½" Felt or Quilt † Insulation	Wood Lath	0.138
135	Wood *	½" Fiber Insulation † (Board form)	Wood Lath	0.145
136	Wood *	Cellular Gypsum Fill **	Wood Lath	0.117
137	Wood *	Flaked Gypsum Fill **	Wood Lath	0.107
138	Wood *	None	1½" Cork board	0.116
139	Wood *	None	2" Cork board	0.097
139-A	Wood *	None	½" Fiber Insulation (Board form)	0.194
140	½" Fiber Insulation (Board form)	None	½" Fiber Insulation (Board form)	0.171
141	1" Fiber Insulation (Board form)	None	½" Fiber Insulation (Board form)	0.136
142	½" Fiber Insulation (Board form)	½" Fiber Insulation (Board form)	½" Fiber Insulation (Board form)	0.113
143	¾" Plaster Board	None	¾" Plaster Board	0.326

*Based on ¾ in., the actual thickness of 1 in. or ¾ in. sheathing.

**Thickness of fill assumed 3½ in., based on 2 in. by 4 in. studding.

†Building paper neglected in computations in accordance with accepted practice.

‡Can also be applied on inside of studding with plaster base separated by furring strips.

Note.—The coefficient used for plasterboard is 3.04 per inch thickness—recent data indicate values as low as 1.30 for this material.

Note.—Plasterboard sheathing is now made in half inch thickness.

Note.—The coefficient used for cellular gypsum, 0.59 is for 18 lb. weight—weights as low as 12 lb. may be used.